SECRET

NPIC/TSG/RED/SRB-091-70
7 December 1970

MEMORANDUM FOR THE RECORD

SUBJECT: Closed Circuit TV System at Headquarters

1. On 3 December 1970 I visited Headquarters to see their closed circuit TV system that is used to transmit briefings and other pictorial information to any of six remote consoles. The console is manufactured by [redacted] presents 925 TV lines and is considerably better than commercial home TV sets. However, the positioning of the consoles used in conference rooms is such that the overhead lighting reflects off the CRT face and the transmitted image is difficult to see.

25X1

2. I discussed this problem with [redacted] and offered several possible solutions as outlined below with some comments.

25X1 25X1

2.1 Reduce or eliminate the overhead lights. This will solve the reflection problem but will cause the inconvenience to observers of not being able to write or read notes during the briefing.

2.2 Increase the lighting on the subject matter. Presently, only normal room lighting is incident on the subject matter. Increased lighting may improve the contrast of the CRT image.

2.3 Place a hood over the CRT. The position of the consoles in the conference rooms is such that a hood might block out some but not all reflections.

2.4 Use a filter on the CRT face. A filter to block out ambient light reflections might be tried. The console presently has a tinted cover about 2 inches in front of the CRT face. It is not clear whether this cover is intended to act as a light or radiation filter or an implosion protection. I brought some filters to try out but did not remove the existing cover and did not give them an adequate test. These filters have the disadvantage of reducing the cone angle within which the CRT can be viewed.

2.5 Use a high contrast CRT phosphor. A CRT is being developed by [redacted] that produces a high contrast image even under extremely high ambient light conditions. However, the size of the newly developed CRT is presently limited and this would certainly not be a quick solution.

25X1

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2.6 Use collimators over existing ambient lights. Under the [redacted] Human Factors work, some light collimators were developed to reduce the reflection of overhead lights from desk and light table tops. I am going to give [redacted] the name of the manufacturers and one or two samples. I feel that this solution is relatively inexpensive and can be implemented rapidly.

25X1

25X1

25X1

[redacted]
Systems Research Branch, RED

25X1

Distribution:
Original - Route & File
1 - RED/ATB
1 - Project Officer
1 - SRB Chrono

M

TRANSMITTAL SLIP | DATE 12/11

TO: Director NPIC JJH PNS ACG

ROOM NO. | BUILDING

REMARKS:

Att - per your request we asked [redacted] 25X1
of REO to contact Mr. [redacted] regarding the CCTV 25X1
used by the DD/I. This
is [redacted] report - 25X1

FROM: [redacted] 25X1

ROOM NO. | BUILDING | EXTENSION

FORM NO. 241 1 FEB 55 REPLACES FORM 36-8 WHICH MAY BE USED. (47)

SENDER WILL CHECK CLASSIFICATION TOP AND BOTTOM

UNCLASSIFIED		CONFIDENTIAL	X	SECRET

OFFICIAL ROUTING SLIP

TO	NAME AND ADDRESS	DATE	INITIALS
1	C/RED	9 Dec	HHF
2	C/TSG	12/11	dwe
3			
4			
5			
6	[redacted]		

	ACTION		DIRECT REPLY		PREPARE REPLY
	APPROVAL		DISPATCH		RECOMMENDATION
	COMMENT		FILE		RETURN
	CONCURRENCE		INFORMATION		SIGNATURE

Remarks:

To 2

John —

This is [redacted] report on his meeting with DDI personnel in response to Art Lundell's request for us to provide them with some Consultation —

HHF

FOLD HERE TO RETURN TO SENDER

FROM: NAME, ADDRESS AND PHONE NO.	DATE
[redacted]	7 Dec 70

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FORM NO. 237 1-67 Use previous editions (40)

RYD: 1